

Ref. A.O

Mandich 9-10
Serial No. 09/912,129
Filing Date: July 24, 2001

990151-5A

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 05-024873

(43)Date of publication of application : 02.02.1993

(51)Int.Cl.

C03B 37/014
G02B 6/00

(21)Application number : 03-184587

(71)Applicant : SUMITOMO ELECTRIC IND LTD

(22)Date of filing : 24.07.1991

(72)Inventor : OGA YUICHI
ISHIKAWA SHINJI

(54) PRODUCTION OF GLASS PREFORM FOR OPTICAL FIBER

(57)Abstract:

PURPOSE: To reduce residual stress in core of optical fiber consisting of quartz glass and core in production of quartz-based optical fiber.

CONSTITUTION: In producing a glass preform by dehydrating a porous preform consisting essentially of quartz and vitrifying transparently, the porous preform is heat-treated in an atmosphere comprising a halogen-containing gas in the dehydrating process and/or the transparently vitrifying to add 0.1-1wt.% halogen to quartz glass and the prepared glass preform is used as core of optical fiber to produce glass preform for optical fiber. Chlorine is preferable as the halogen. The core formed in this way has small residual stress and variability of specific refractive index difference, λ c, MFD, etc., from set values is small.

LEGAL STATUS

[Date of request for examination] 25.08.1997

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number] 3106564

[Date of registration] 08.09.2000

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]